

Applicants : Hermann Franzen and Joachim Kröll
For : LIFTING DEVICE FOR CONTAINERS
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In the Specification:

Applicants wish to amend the specification as follows:

Please replace the heading before the first paragraph on page 1 with the following new heading:

Specification
BACKGROUND OF THE INVENTION

The invention concerns a lifting device for containers, especially ISO containers which can be handled by means of container handling gear, with a drive means for traction means, which is arranged on a supporting frame in order to raise and lower the container by means of a load-receiving means arranged on the lower end of the traction means.

Please insert the following heading on page 1, before paragraph 6, as follows:

SUMMARY OF THE INVENTION

The purpose of the invention is therefore to create a low-volume lifting device for container handling equipment for a relatively small bridging height.

Please replace paragraph 9 on page 2 with the following amended paragraph:

The invention will now be described by means of a drawing. This shows:

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Please insert the following heading on page 2, before paragraph 10, and replace paragraph 10 with the following amended paragraph:

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1, is a side elevation of a container handling unit in side view with a lifting device using angle levers,

Please replace paragraphs 1-5 on page 3 with the following amended paragraphs:

Figure 2, is a front view of a container handling unit in front view of the lifting device using angle levers in figure 1,

Figure 3, is a side elevation of the lifting device for a container handling unit in a loading/unloading position,

Figure 4, is a top plan view of the lifting device for a container handling unit in a top view figure 3,

Figure 5, the is a perspective view of a lifting device for a container handling unit using deflected lifting cables, and

Figure 6, detail drawings is a detailed drawing of the lifting device with lifting cables in figure 5.

Please insert the following heading on page 3, before paragraph 6, as follows:

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Figure 1 shows a container handling unit 1 with a lifting device 2, having a support frame 3. Linked to the support frame 3 is a hydraulic cylinder 4, whose piston rod 5 is connected to a lever arm 6 of an angle lever 7, which is pivoted about its axis A, located at the apex. The other lever arm 8 is connected via a vertical coupling rod 9a to a guiding cross-bar 10a by means of a tie bracket 11a. To the lever arm 6 of the angle lever 7 is linked a horizontal coupling rod 12, which is connected at its other end to a lever arm 13 of a second angle lever 14, which is likewise pivoted about its axis B located at the apex. The lever arm 15 of this angle lever 14 is likewise connected via a vertical coupling rod 9b to a guiding cross-bar 10b by means of a tie bracket 11b. The two vertical coupling rods 9a, 9b each engage the upper ends of the respective tie brackets 11a, 11b, while at the lower ends of the tie brackets 11a, 11b are arranged additional traction means 16 in the form of chains. Secured to the lower ends of the chains is the spreader 17, being the load-receiving means. The horizontal position of the spreader 17 is parallel with the standing surface of the container handling unit 1.